

ATTORNEY'S DOCKET NUMBER: 0492611-0513 (MIT Case 8853)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Cohen, et al.

Examiner:

To be assigned

Serial No.:

10/667,956

Art Unit:

To be assigned

Filed:

September 22, 2003

For:

METHODS AND APPARATUS FOR DETERMINING CARDIAC OUTPUT

MAIL STOP: MISSING PARTS Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

APPOINTMENT OF ATTORNEY

The undersigned hereby appoints:

Sam Pasternack, Reg. No. 29,576
Donald W. Muirhead, Reg. No. 33,978
Brenda Herschbach Jarrell, Reg. No. 39,223
Anne E. Saturnelli, Reg. No. 41,290
Kevin Tormey, Reg. No. 41,351
Elizabeth E. Nugent, Reg. No. 43,839
Valarie B. Rosen, Reg. No. 45,698
C. Hunter Baker, Reg. No. 46,533
Monica Gerber, Reg. No. 46,724
Elijah Cocks, Reg. No. 47,499
John A. Hamilton, III, Reg. No. 48,946
Nadège M. Lagneau, Reg. No. 51,908
Charles Lyon, Limited Recognition Under 37 C.F.R. §10.9(b)
Stacy Blasberg, Reg. No. 52,625
Theresa Devlin, Reg. No. 45,361

as its attorneys and agents for prosecution of matters relating to the above-identified patent application and to conduct all business in the United States Patent and Trademark Office.

All correspondence should be sent to Monica R. Gerber, M.D., Ph.D., Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109.

Respectfully submitted,	
Name: Rita 4. Filipowico	
Title: Patent Administrator	
On behalf of Massachusetts Institute of Technology	
Dated: 1/9/04	



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P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION (37 CFR § 3.73(b))

The inventors of the above-referenced United States patent application have assigned their entire right, title, and interest in the inventions disclosed therein according to the following table:

Inventor	Assignee		
Richard J. Cohen	Massachusetts Institute of Technology		
Ramakrishna Mukkamala Massachusetts Institute of Tech			
Derin A. Sherman	Massachusetts Institute of Technology		

Thus, the Assignee of the inventors' entire right, title, and interest are:

Massachusetts Institute of Technology

According to 37 CFR § 3.73(b), the Assignee is entitled to take action relating to the application in the Patent and Trademark Office if the Assignee establishes ownership to the satisfaction of the Commissioner.

Ownership by the assignee is established as follows:

3639289_1.DOC

Page 1 of 2

Attorney Docket No. 0492611-0513 (Client Reference: MIT 8853)



	documents already recorded	in the PTO on
	Reel	Frame; and
<u>X</u> _	documents separately submidocuments are attached).	tted for recordal to the PTO (a copy of these

STATEMENT

I, person(s) authorized to sign on behalf of the Assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is mine/ours as Assignee who seeks to take further action.

Name/Title	Assignee	Date
Signature: The M. Lilyanus Name: Rita M. Filipowicz Title: Data Administrator	Massachusetts Institute of Technology	1/9/04



DECLARATION

Attorney Docket No.: 0492611-0513 (MIT8853)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHODS AND APPARATUS FOR DETERMINING CARDIAC OUTPUT

the specification of which (I authorize Choate, Hall & Stewart to check one of the following, three choices, and fill in the blanks, if applicable):

is attached hereto.	
X was filed on September on (if applicable).	22, 2003 as Application Serial No. 10/667,956 and amended
was filed as PCT interna	ntional application No,
on	and was amended under PCT Article 19
on	(if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

			PRIORITY CLAIMED	
Number	COUNTRY	FILING DATE	YES	No
r				

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION NUMBER	FILING DATE	STATUS
L		

PCT Applications designating the United States:

PCT APPLICATION NUMBER	FILING DATE	STATUS

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Provisional Application(s):

APPLICATION NUMBER	FILING DATE	STATUS
60/446,385	February 10, 2003	Pending
		· · · · · · · · · · · · · · · · · · ·
	1	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of inventor	Richard J. Cohen
Inventor's Signature	Rulu Jel Date 2/11/2004
Residence	4 Monadnoc Road, Chestnut Hill, MA 02167
Citizenship	U.S.
Post Office Address	Same as above
Full name of inventor	Ramakrishna Mukkamala
Inventor's Signature	Date
Residence	7614 Heritage Drive, Apt. 11, Lansing, Michigan 48917
Citizenship	U.S.
Post Office Address	Same as above
Full name of inventor	Derin A. Sherman
Inventor's Signature	Date
Residence	3209 12 th Avenue SE, Cedar Rapids, IA 52403
Citizenship	U.S.
Post Office Address	Same as above



Attorney Docket No.: 0492611-0513 (MIT8853)

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Attorney Docket No.: 0492611-0513 MIT8853

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APPLICATION NUMBER	FILING DATE	STATUS

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Provisional Application(s):

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60/446,385	February 10, 2003	Pending

2

Attorney Docket No.: 0492611-0513

MIT8853

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of inventor	Richard J. Cohen	
Inventor's Signature	Date	
Residence	4 Monadnoc Road, Chestnut Hill, MA 02167	
Citizenship	U.S.	
Post Office Address	Same as above	
Full name of inventor	Ramakrishna Mukkamala	
Inventor's Signature	Date	
Residence	7614 Heritage Drive, Apt. 11, Lansing, Michigan 48917	
Citizenship	U.S.	
Post Office Address	Same as above	
Full name of inventor	Derin A. Sherman	
Inventor's Signature	Deir after Date 15 Jan 2014	
Residence	3209 12 th Avenue SE, Cedar Rapids, IA 52403	
Citizenship	U.S.	
Post Office Address	Same as above	

Attorney Docket No.: 0492611-0513 (MIT8853)

DECLARATION

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Prior Foreign Application(s):

3639214 1.DOC

			PRIORITY	CLAIMED
Number	COUNTRY	FILING DATE	YES	No

Attorney Docket No.: 0492611-0513

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APPLICATION NUMBER	FILING DATE	STATUS

PCT Applications designating the United States:

PCT APPLICATION NUMBER	FILING DATE	STATUS
		

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Provisional Application(s):

FILING DATE	STATUS
February 10, 2003	Pending

2

Attorney Docket No.: 0492611-0513

MIT8853

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of inventor	Richard J. Cohen
Inventor's Signature	Date
Residence	4 Monadnoc Road, Chestnut Hill, MA 02167
Citizenship	U.S.
Post Office Address	Same as above
Full name of inventor	Ramakrishna Mukkamala
Inventor's Signature	Robert Juhle Date 2/3/04
Residence	7614 Heritage Drive, Apt. 11, Lansing, Michigan 48917
Citizenship	U.S.
Post Office Address	Same as above
Full name of inventor	Derin A. Sherman
Inventor's Signature	Date
Residence	3209 12 th Avenue SE, Cedar Rapids, IA 52403
Citizenship	U.S.
Post Office Address	Same as above

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Richard J. Cohen of Chestnut Hill, Massachusetts, Ramakrishna Mukkamala, of Lansing, MI and Derin A. Sherman of Cedar Rapids, IA, hereby

Sell, assign and transfer to Massachusetts Institute of Technology, having a place of business at 5 Cambridge Center, Kendall Square, Cambridge, MA 02142, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, their entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed September 22, 2003, Serial No. 10/667,956 entitled "METHODS AND APPARATUS FOR DETERMINING CARDIAC OUTPUT" and in and to said application and all divisional, continuing, substitute, renewal, reexamination, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original, reissued, and reexamination patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reexamination, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to them relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by them, and that full right to convey the same as herein expressed is possessed by them.

Attorney Docket No.: 0492611-0513 (Client Ref. No.: MIT8853

Page 1 of 3

his	day of	<u> </u>	, 2004	
				Richard J. Cohen
STATE OF _			-	
COUNTY OF			ss. _•	
Richard J Assignmer	Cahan Imoum t	o me to be the pe ged that he execu	erson whose nai	2004 personally appeared me is subscribed to the foregoing s his free act and deed for the
			NOTARY PUBLI	C
[Notary's S	Seal Here]		My Commissi	on Expires:
	WITNESS WHI			d seal at
this	day of		_, 200 .	
				Ramakrishna Mukkamala
COUNTY	A A A A A A A A A A A A A A A A A A A	day of	SS.	2004 personally appeared whose name is subscribed to the
foregoing the purpo	g Assignment and sees therein contains	l acknowledged t ined.	nat ne executed	the same as his free act and deed for
			NOTARY PUBI	LIC
[Notary's	Seal Here]		My Commiss	sion Expires:

Page 2 of 3

Attorney Docket No.: 0492611-0513 (Client Ref. No.: MIT8853

IN WITNESS WHEREOF, I hereto	set my hand and seal at Mt. Vernon, IA
this 15th day of January	, 2004 Derin A. Sherman
STATE OF <u>Linn</u>	SS.
Before me this 15th day of Sharman known to me to be the person who	Onuary, 2004 personally appeared Derin A. ose name is subscribed to the foregoing Assignment e as his free act and deed for the purposes therein
contained RUTHANN L. SCHEER Commission Number 151096 My Commission Expires 4-13-2004	Putlann L Scher NOTARY PUBLIC
[Notary's Seal Here]	My Commission Expires: 4-13-2004

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned Richard J. Cohen of Chestnut Hill, Massachusetts, Ramakrishna Mukkamala, of Lansing, MI and Derin A. Sherman of Cedar Rapids, IA, hereby

Sell, assign and transfer to Massachusetts Institute of Technology, having a place of business at 5 Cambridge Center, Kendall Square, Cambridge, MA 02142, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, their entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed September 22, 2003, Which are disclosed in the application for United States Letters Patent filed September 22, 2003, Serial No. 10/667,956 entitled "METHODS AND APPARATUS FOR DETERMINING CARDIAC OUTPUT" and in and to said application and all divisional, continuing, substitute, renewal, reexamination, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original, reissued, and reexamination patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reexamination, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to them relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenant with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by them, and that full right to convey the same as herein expressed is possessed by them.

Attorney Docket No.: 0492611-0513 (Client Ref. No.: MIT8853

IN WITNESS WHEREOF, Thereto	Set my nand	and seal at
his day of	_, 2004	
		Richard J. Cohen
TATE OF	SS.	
COUNTY OF	·	
Before me this day of Richard J. Cohen known to me to be the Assignment and acknowledged that he executively executive the executive purposes therein contained.	person whose ecuted the san	, 2004 personally appeared aname is subscribed to the foregoing are as his free act and deed for the
	NOTARY P	UBLIC
[Notary's Seal Here]	My Comm	nission Expires:
IN WITNESS WHEREOF, I here this day ofFe b rvary	to set my han	and seal at MSUFCU Ramakrishna Mukkamala
4.0		Ramakrishna Mukkamana
COUNTY OF Ingham	 	•
Before me this 32d day of	Teber And the to be the period that he executed the executed that he executed the executed that he executed that he executed that he executed the executed that he executed the executed that he executed that he executed the executed the executed that he executed the executed the executed that he executed the executed that he executed the executed that he executed the executed the executed that he executed the executed that he executed the executed that he exec	erson whose name is subscribed to the cuted the same as his free act and deed for the same as his free act and deed for the same as his free act and deed for the same as his free act and deed for the same as his free act and deed for the same as his free act and deed for the same as his free act and deed for the same act and dee
	(/	nmission Expires: 12.16.60

Page 2 of 3

Attorney Docket No.: 0492611-0513 (Client Ref. No.: MIT8853

[Notary's Seal Here]

IN WITN	IESS WHEREOF, I ner	eto set my nano	and seal at
this c	lay of	, 2004	
			Derin A. Sherman
STATE OF			
		SS.	
COUNTY OF		·	
Before m Sherman known and acknowledge contained.	e this day of a to me to be the person ed that he executed the s	whose name is same as his free	, 2004 personally appeared Derin A . subscribed to the foregoing Assignment e act and deed for the purposes therein
		NOTARY P	JBLIC
Notary's Seal H	erel	My Comn	nission Expires:

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned **Richard J. Cohen** of Chestnut Hill, Massachusetts, **Ramakrishna Mukkamala**, of Lansing, MI and **Derin A. Sherman** of Cedar Rapids, IA, hereby

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IN WITNESS WHEREOF, I hereto set my hand and seal at
this 13th day of February, 2004 R. W. D.
R. Shall 2. Chan
Richard J. Cohen
SS. COUNTY OF Moderat Before me this 13h day of fibruar, 2004 personally appeared Richard J. Cohen known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained. [Notary's Seal Here] My Commission Expires: 11/04/05
IN WITNESS WHEREOF, I hereto set my hand and seal at
this day of, 2004
Ramakrishna Mukkamala
STATE OFSS.
COUNTY OF
Before me this, 2004 personally appeared Ramakrishna Mukkamala known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.
NOTARY PUBLIC

[Notary's Seal Here]

My Commission Expires:

IN WITNIESS WHEREOF, I here	eto set my hand and seal at
IN WITHESS WILL COL, I have	,
this day of	, 2004
	·
	Derin A. Sherman
STATE OF	
	SS.
COUNTY OF	·
	, 2004 personally appeared Derin A . whose name is subscribed to the foregoing Assignment same as his free act and deed for the purposes therein
	NOTARY PUBLIC
[Notary's Seal Here]	My Commission Expires: